

CONSTRUCTION PERMIT SUMMARY REPORT

Company Name: Phillips & Jordan, Inc. File Number: 45-0161 Source Point Number(s): 01

Permit Number(s): 968990P Environmental Protection Specialist Initials AY

Application Received (date): 07/15/16/14 Application Complete (date): 08/12/14

Air Quality Analysis Performed? Yes No

Briefly describe the project: (new source, modifications) (what the process is) (type controls proposed) (emissions expected, qualitative) (replacing what sources) (background information)

This source is a Temporary portable continuous mix plant for producing Roller Compacted Concrete (RCC) at TVA Cherokee Dam location. This source will consist of a 45 ton cement silo, a 50 ton fly ash silo, and a QSC8.3 diesel engine. Fabric filters are used as control devices for silos.

Rules Analysis

Title V Cond. Major Minor Source category listed in 1200-03-09-.01(4)(b)1.(i)? Yes No

| | | | | |
|---|--------------------------|---------------------------------|--------------------------|---|
| Reason for PSD: New source above ____ TPY | <input type="checkbox"/> | Sig. increase in ____ emissions | <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> |
| Applicable NSPS: 40 CFR Part 60, Subpart ____ | <input type="checkbox"/> | State Rule 1200-03-16-____ | <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> |
| Applicable NESHAP: 40 CFR Part 61, Subpart ____ | <input type="checkbox"/> | State Rule 1200-03-11-____ | <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> |
| 40 CFR Part 63, Subpart ____ | <input type="checkbox"/> | State Rule 1200-03-31-____ | <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> |

Other Applicable State Rules

| | |
|---|---|
| TSP Emissions: 1200-03-07-. 04(1) <input checked="" type="checkbox"/> N/A <input type="checkbox"/> | NO _x Emissions: 1200-03-07-____ <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| SO ₂ Emissions: 1200-03-07-____ <input type="checkbox"/> N/A <input checked="" type="checkbox"/> | Lead Emissions 1200-03-____-____ <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| CO Emissions: 1200-3-07-____ <input type="checkbox"/> N/A <input checked="" type="checkbox"/> | Emissions: 1200-03-____-____ <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| VOC Emissions: 1200-03-07-____ <input checked="" type="checkbox"/> N/A <input type="checkbox"/> | Emissions: 1200-03-____-____ <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |

Visible Emissions from the source not to exceed 20 % opacity per Method 9 (Rule 1200-03-05-.01(1) & (Rule 1200-03-05-.03(6))

Comments: _____

Emission Summary

Permit No. 968990P

Source Status: New Modification Expansion Relocation Permit Status: New Renewal
 PSD NSPS NESHAPS Previous Permit No.: Construction Operating

| | Pounds/Hour | | | Tons/Year | | | | Date Data | * | Applicable Standard 1200-03- |
|-----------------|-------------|-----------|-----------|-----------|-----------|-----------|------------|-----------|---|---------------------------------|
| | Actual | Potential | Allowable | Actual | Potential | Allowable | Net Change | | | |
| *TSP | 0.02 | 0.2 | 0.2 | 0.015 | 0.88 | 0.88 | | 08/15/14 | | 07-.04(1) |
| SO ₂ | | | | | | | | | | |
| CO | | | | | | | | | | |
| VOC | | | | | | | | | | |
| NO _x | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

* Source of data: Construction permit application dated 07-15-2014.

$41.73 - 0.02 = 41.71 \text{ lbs/hr fugitive}$

$41.7 \text{ lbs/hr} \times 1520 \text{ hrs/yr} / 2000 \text{ lb/tons} = 3.2 \text{ tons/year}$, $3.2 \text{ tons/year} \times 4.38 = 182.6 \text{ tons/year}$

Each Silo $0.02 \text{ gr/dscf} \times 530 \text{ ft}^3/\text{min.} \times 60 \text{ m/hr} \times 1 \text{ lb}/7000 \text{ gr} = 0.1 \times 2 = 0.2 \text{ lb/hr}$ for both silos.

$0.02 \times 1520/2000 = 0.015 \text{ Tons/year.}$